Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

5   ## Listing of Claims:

Claims 1-21 (Cancelled)

Claim 22 (New): A method of frame synchronization for converting a source frame to a
        destination frame, the source frame being received at a first frame rate and the
10   destination frame being outputted at a second frame rate, the method comprising the
        following steps:
        buffering at least a part of the source frame;
        determining whether a predetermined condition is satisfied;
        if the predetermined condition is satisfied, converting the source frame to the
15   destination frame with a first amount of pixel data such that the first frame rate is
            different from the second frame rate; and
        if the predetermined condition is dissatisfied, converting the source frame to the
            destination frame with a second amount of pixel data such that the first frame rate
            is substantially the same as the second frame rate;
20   wherein the first amount is different from the second amount.

Claim 23 (New): The method of claim 22, wherein the step of converting the source
        frame to the destination frame with the first amount of pixel data further comprises
        adjusting a time for generating a vertical sync signal such that the first frame rate is
25   substantially the same as the second frame rate, and the step of converting the
        source frame to the destination frame with the second amount of pixel data further
        comprises keeping the time for generating the vertical sync signal unchanged such
        that the first frame rate is substantially the same as the second frame rate.

2

Claim 24 (New): The method of claim 22, wherein the predetermined condition is a time
interval between a last horizontal sync signal and a vertical sync signal shorter than
a time limit, and the first amount is more than the second amount if the
predetermined condition is satisfied.

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Claim 25 (New): The method of claim 22, wherein the predetermined condition is a
number of pixel data for constructing the destination frame being an odd number,
and the first amount is more than the second amount if the predetermined condition
is satisfied.

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Claim 26 (New): The method of claim 22, wherein the predetermined condition is an
overflow condition, and the first amount is fewer than the second amount if the
predetermined condition is satisfied.

15   Claim 27 (New): The method of claim 26, wherein the step of determining whether the
predetermined condition is satisfied comprises:
determining whether the amount of the source frame being buffered is over a
maximum level.

20   Claim 28 (New): The method of claim 22, wherein the predetermined condition is an
underflow condition, and the first amount is more than the second amount if the
predetermined condition is satisfied.

Claim 29 (New): The method of claim 28, wherein the step of determining whether the
25   predetermined condition is satisfied comprises:
determining whether the amount of the source frame being buffered is under a
minimum level.

Claim 30 (New): The method of claim 22, wherein the first amount of pixel data

3

comprises a third amount of invisible porch signals, the second amount of pixel data comprises a fourth amount of invisible porch signals, and the third amount is different from the fourth amount.

5   Claim 31 (New): A method of frame synchronization for converting a source frame to a destination frame, the source frame being received at a first frame rate and the destination frame being outputted at a second frame rate, the destination frame comprising a plurality of horizontal lines, the method comprising the following steps:

10   buffering at least a part of the source frame;
determining whether a predetermined condition is satisfied; and
if the predetermined condition is satisfied, generating a first horizontal line of the horizontal lines corresponding to a first horizontal sync period and generating a second horizontal line of the horizontal lines corresponding to a second horizontal

15   sync period;
wherein the first horizontal sync period is different from the second horizontal sync period.

Claim 32 (New): The method of claim 31, wherein the first horizontal line comprises a

20   first amount of pixel data, the second horizontal line comprises a second amount of pixel data, and the first amount is different from the second amount.

Claim 33 (New): The method of claim 32, wherein the first amount of pixel data comprises a third amount of invisible porch signals, the second amount of pixel data

25   comprises a fourth amount of invisible porch signals, and the third amount is different from the fourth amount.

Claim 34 (New): The method of claim 31, wherein the first frame rate is the same as the second frame rate.

4

Claim 35 (New): The method of claim 31, wherein the predetermined condition is a time
interval between a last horizontal sync signal and a vertical sync signal shorter than
a time limit.

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Claim 36 (New): An apparatus for converting a source frame to a destination frame, the
source frame being received at a first frame rate and the destination frame being
output at a second frame rate, the apparatus comprising:
a buffer for storing at least a part of the source frame; and

10   a converter for determining whether a predetermined condition is satisfied, the
converter converting the source frame to the destination frame with a first amount
of pixel data if the predetermined condition is satisfied such that the first frame
rate is different from the second frame rate, and converting the source frame to
the destination frame with a second amount of pixel data if the predetermined

15   condition is dissatisfied such that the first frame rate is substantially the same as
the second frame rate;
wherein the first amount is different from the second amount.

Claim 37 (New): The apparatus of claim 36, wherein the converter adjust a time for
20   generating a vertical sync signal if the predetermined condition is satisfied such that
the first frame rate is different from the second frame rate, and the converter keeps
the time for generating the vertical sync signal unchanged if the predetermined
condition is dissatisfied such that the first frame rate is substantially the same as the
second frame rate.

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Claim 38 (New): The apparatus of claim 36, wherein the predetermined condition is a
time interval between a last horizontal sync signal and a vertical sync signal shorter
than a time limit, and the first amount is more than the second amount if the
predetermined condition is satisfied.

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Claim 39 (New): The apparatus of claim 36, wherein the predetermined condition is a
    number of pixel data for constructing the destination frame being an odd number,
    and the first amount is more than the second amount if the predetermined condition
5   is satisfied.

Claim 40 (New): The apparatus of claim 36, wherein the predetermined condition is an
    overflow condition happened to the buffer, and the first amount is fewer than the
    second amount if the predetermined condition is satisfied.
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Claim 41 (New): The method of claim 40, wherein the converter determines whether the
    amount of the source frame being buffered is over a maximum level.

Claim 42 (New): The apparatus of claim 36, wherein the predetermined condition is an
15   underflow condition happened to the buffer, and the first amount is more than the
    second amount if the predetermined condition is satisfied.

Claim 43 (New): The method of claim 42, wherein the converter determines whether the
    amount of the source frame being buffered is under a maximum level.

20   Claim 44 (New): The apparatus of claim 36, wherein the first amount of pixel data
    comprises a third amount of invisible porch signals, the second amount of pixel data
    comprises a fourth amount of invisible porch signals, and the third amount is
    different from the fourth amount.

25   Claim 45 (New): The apparatus of claim 36, wherein the buffer is a first-in-first-out
    (FIFO) buffer.

Claim 46 (New): An apparatus for converting a source frame to a destination frame, the
    source frame being received at a first frame rate and the destination frame being

6

output at a second frame rate, the destination frame comprising a plurality of
horizontal lines, the apparatus comprising:

a buffer for storing at least a part of the source frame; and

a converter coupled to the buffer for determining whether a predetermined condition

5   is satisfied, the converter generating a first horizontal line of the horizontal

lines corresponding to a first horizontal sync period and a second horizontal

line of the horizontal lines corresponding to a second horizontal sync period if

the predetermined condition is satisfied;

wherein the first horizontal sync period is different from the second horizontal sync

10   period.

Claim 47 (New): The apparatus of claim 46, wherein the first horizontal line comprises a
first amount of pixel data, the second horizontal line comprises a second amount of
pixel data, and the first amount is different from the second amount.

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Claim 48 (New): The method of claim 47, wherein the first amount of pixel data
comprises a third amount of invisible porch signals, the second amount of pixel data
comprises a fourth amount of invisible porch signals, and the third amount is
different from the fourth amount.

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Claim 49 (New): The method of claim 46, wherein the first frame rate is the same as the
second frame rate.

Claim 50 (New): The method of claim 46, wherein the predetermined condition is a time
25   interval between a last horizontal sync signal and a vertical sync signal shorter than
a time limit.

Claim 51 (New): The apparatus of claim 46, wherein the buffer is a first-in-first-out
(FIFO) buffer.

7